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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/606,749	06/27/2003	Tsuyoshi Iijima	239135US0	5354
22850	7590	11/09/2005	EXAMINER	
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.				MARTIN, ANGELA J
1940 DUKE STREET				
ALEXANDRIA, VA 22314				
				ART UNIT
				PAPER NUMBER
				1745

DATE MAILED: 11/09/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/606,749	Applicant(s) IIJIMA ET AL.
	Examiner Angela J. Martin	Art Unit 1745

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.

If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.

Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 26 October 2005.

2a) This action is **FINAL**. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-9 is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 1-9 is/are rejected.

7) Claim(s) _____ is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some * c) None of:

1. Certified copies of the priority documents have been received.

2. Certified copies of the priority documents have been received in Application No. _____.

3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s)/Mail Date: _____.
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date: _____.	6) <input type="checkbox"/> Other: _____.

DETAILED ACTION

This Office Action is responsive to the Amendment filed on October 26, 2005. The Applicant has filed a Declaration under 37 CFR 1.132 after a final action and it has been entered. However, a new rejection is presented for the following reasons of record.

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sato et al., U.S. Pat. Application Pub. 2002/0034685 A1.

Rejection of claims 1-9 drawn to a lithium secondary battery.

Sato et al., teach a lithium secondary battery wherein a plurality of cathodes and anodes are arranged to construct an electrode structure (abstract; Fig. 1), which includes an outermost layer of electrode on which a back coat layer is formed and wherein the entire surface of the outermost layer is covered with the back coat layer and only the outermost layers of the electrode structure are covered with the back coat layers (sect. 0039). It teaches the back coat layer prevents the electrodes from short-circuiting (abstract; sect. 0121). It also teaches the layer contains at least an inorganic material as a resin (sect. 0078). It teaches the filler is the same material as an electrode active material (sect. 0099). It teaches the layer has a thickness of 50 μm -1 mm (sect.

0042). It also teaches the electrode structure is a laminate structure (sect. 0037-0039).

It teaches the outermost layer of electrode is the negative electrode (Fig. 1, 3, 4).

Sato et al., teach the material and thickness of the layer within the above claimed range and would therefore prevent the electrodes from warping, as well as the repeated "folding or winding an integral body of the unit cells" (sect. 0010) would prevent warping of the electrodes. It also teaches the separator comprises polyolefin (sect. 0096-0097), which would have a piercing strength of at least 50 gf.

Therefore, the invention as a whole would have been obvious to one of ordinary skill in the art at the time the invention was made because one of ordinary skill in the art would manufacture an electrode, which would not warp and, would provide a separator with a sufficient piercing strength to further prevent short-circuiting.

Response to Arguments

3. Applicant's arguments with respect to the above claims have been considered but are moot in view of the new ground(s) of rejection.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Angela J. Martin whose telephone number is 571-272-1288. The examiner can normally be reached on Monday-Friday from 9:00 am to 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached on 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

AJM



PATRICK JOSEPH RYAN
SUPERVISORY PATENT EXAMINER